United States Patent [19] Nakanishi et al.			[11] Patent Number: 5,017,225 [45] Date of Patent: May 21, 1991
[54]	MICROENCAPSULATED PHOTOCHROMIC MATERIAL, PROCESS FOR ITS PREPARATION AND A WATER-BASE INK COMPOSITION PREPARED THEREFROM		[52] U.S. Cl
[75]	Inventors:	Masayuki Nakanishi; Takashi Iwasaki, both of Kanagawa; Shuichi Maeda, Saitama, all of Japan	[56] References Cited U.S. PATENT DOCUMENTS
[73]	T .*	Japan Capsular Products Inc.; Mitsubishi Kasei Corporation, both of Japan	4,132,436 1/1979 Ishige et al. 106/21 4,727,140 2/1988 Meisel et al. 544/92 4,766,211 8/1988 Zink et al. 544/74 4,816,584 3/1989 Kwak et al. 544/71
[21]	Appl. No.:	392,913	4,909,963 3/1990 Kwak et al 544/71
[22]	PCT Filed:	Dec. 1, 1988	Primary Examiner-Mark L. Bell
[86]	PCT No.:	PCT/JP88/01215	Assistant Examiner—Helene Klemanski Attorney, Agent, or Firm—Jordan B. Bierman
	§ 371 Date:	Jul. 27, 1989	[57] ABSTRACT
	§ 102(e) Da	te: Jul. 27, 1989	This invention relates to a microencapsulated photo-
[87]	PCT Pub. N	No.: WO89/05335	chromic material and a process for its preparation.
PCT Pub. Date: Jun. 15, 1989		Date: Jun. 15, 1989	More particularly, it relates to a microencapsulated
[30]	Foreign	Application Priority Data	photochromic material having a good durability and a process for its preparation.
Dec. 2, 1987 [JP] Japan 62-305082 Oct. 19, 1988 [JP] Japan 63-263303 Oct. 19, 1988 [JP] Japan 63-263304 Oct. 19, 1988 [JP] Japan 63-263306			The present invention further relates to a water-base ink composition comprising said microencapsulated photochromic material.
[51] Int. Cl. ⁵ C09D 11/00; B41M 5/165			10 Claims, No Drawings